II. Claim Amendments

1. (Currently Amended) A tandem axle system, comprising:

a first axle having a first <u>service</u> brake actuating chamber with a first diaphragm, said first diaphragm connected to a first brake actuating arm for engaging a first <u>service</u> friction device on said first axle;

a second axle having a second <u>service</u> brake actuating chamber with a second diaphragm, said second diaphragm having a smaller area than <u>an area of</u> said first diaphragm, said second diaphragm connected to a second brake actuating arm for engaging a second <u>service</u> friction device on said second axle, <u>wherein said second axle</u>, with said first axle, is part of a tandem axle system; and

at least one a first control valve in fluid communication with both said first and said second diaphragms to displace said first and said second brake actuating arms and engage said first and said second service friction devices on said first and said second axles respectively; and

a second control valve, separate from said first control valve, downstream from a reservoir and said first control valve, respectively, so that said first control valve is in direct fluid communication with said second control valve, wherein said second control valve provides less fluid pressure to said second brake actuation chamber than fluid pressure provided to said first brake actuating chamber by said first control valve.

(Original) The apparatus of claim 1, wherein a displacement of said second brake
actuating arm by said second diaphragm is less than a displacement of said first brake
actuating arm by said first diaphragm.

- 3. (Original) The apparatus of claim 1, wherein said first and said second brake actuating arms have a substantially equal length.
- 4. (Original) The apparatus of claim 1, wherein said second brake actuating arm is shorter than said first brake actuating arm.
- 5. (Canceled)
- 6. (Canceled)
- 7. (Currently Amended) A tandem axle system, comprising:

a first axle having a first <u>service</u> brake actuating chamber having a first diaphragm, said first diaphragm connected to a first brake actuating arm for engaging a first service friction device on said first axle;

a second axle having a second <u>service</u> brake actuating chamber having a second diaphragm, said second diaphragm connected to a second brake actuating arm, said second brake actuating arm <u>being</u> shorter than said first brake actuating arm, for engaging a second service friction device on said second axle; and

at least one a first air control valve in communication with both said first and said second diaphragm diaphragms for individually engaging said first and said second diaphragms to displace said first and said second brake actuating arms and engage said first and said second service friction devices on said first and said second axles, respectively; and

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a second control valve, separate from said first control valve, downstream from a reservoir and said first control valve, respectively, so that said first control valve is in direct fluid communication with said second control valve, wherein said second control valve provides less fluid pressure to said second brake actuation chamber than fluid pressure provided to said first brake actuating chamber by said first control valve.

- (Currently Amended) The apparatus of claim 7, wherein said second diaphragm has a 8. smaller area than an area of said first diaphragm.
- 9. (Original) The apparatus of claim 7, wherein a displacement of said second brake actuating arm by said second diaphragm is less than a displacement of said first brake actuating arm by said first diaphragm.
- (Canceled) 10.
- 11. (Canceled)
- (Currently Amended) A method of braking a tandem axle system, comprising: 12. engaging a first service friction device on a first axle with a first brake actuating arm connected to a first diaphragm;

engaging a second service friction device on a second axle with a second brake actuating arm connected to a second diaphragm, said second axle part of a tandem axle system with said first axle; and

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providing a pre-determined amount of pressurized fluid to said first diaphragm and

said second diaphragm to engage said first service friction device and said second

service friction device; and

providing a first control valve between a reservoir and said first service friction

device and providing a second control valve, separate from said first control valve,

between said first control valve and said second service friction device for providing

less fluid pressure to said second service friction device than fluid pressure provided

to said first service friction device by said first control valve.

13. (Original) The method of claim 12, wherein said second brake actuating arm is shorter

than said first brake actuating arm.

14. (Currently Amended) The method of claim 13 12, wherein said second brake actuating

arm provides a braking force to said second friction device less than a braking force said

first brake actuating arm provides to said first friction device.

15. (Currently Amended) The method of claim 13 12, wherein said second diaphragm has a

smaller area than an area of said first diaphragm.

16. (Original) The method of claim 15, wherein said second diaphragm displaces said

second brake actuating arm a shorter distance than said first diaphragm displaces said

first brake actuating arm.

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- 17. (Canceled)
- 18. (Canceled)
- 19. (Canceled).